

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/750,328	12/31/2003	Mark E. Gardiner	59082US002	4686	
32692	7590 09/28/2005		EXAM	EXAMINER	
3M INNOV	ATIVE PROPERTIES CO	KIM, ELLEN E			
PO BOX 334 ST. PAUL,	427 MN 55133-3427		ART UNIT	PAPER NUMBER	
,			2874		
			DATE MAILED: 09/28/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

<del></del>		Application No.	Applicant(s)		
Office Action Summary		10/750,328	GARDINER, MARK E.	(m)	
		Examiner	Art Unit		
		Ellen Kim	2874		
Period fo	The MAILING DATE of this communi	cation appears on the cover shee	t with the correspondence addres	:s	
A SH WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE M. Insions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this commination period for reply is specified above, the maximum stare to reply within the set or extended period for reply reply received by the Office later than three months are patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF THIS COMMU of 37 CFR 1.136(a). In no event, however, maj unication. atutory period will apply and will expire SIX (6) N will, by statute, cause the application to becom-	JNICATION:  y a reply be timely filed  MONTHS from the mailing date of this commuse ABANDONED (35 U.S.C. § 133).		
Status					
2a)□	Responsive to communication(s) file This action is <b>FINAL</b> .  Since this application is in condition to closed in accordance with the practic	2b)⊠ This action is non-final. for allowance except for formal m	• •	erits is	
Dispositi	on of Claims	·			
5)□ 6)⊠ 7)□ 8)□ <b>Applicati</b> 9)□	Claim(s) 1-22 is/are pending in the a 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1-22 is/are rejected. Claim(s) 1-22 is/are objected to. Claim(s) is/are objected to. Claim(s) are subject to restrict on Papers The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including	re withdrawn from consideration.  tion and/or election requirement.  e Examiner.  a) accepted or b) objected or b to the drawing(s) be held in abe	eyance. See 37 CFR 1.85(a).	.121(d).	
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority u	ınder 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
2) D Notic	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P <sup>*</sup> nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date <u>5/05</u> .	TO-948) Paper I	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO-152 	<b>!</b> )	

#### **DETAILED ACTION**

Page 2

### **Drawings**

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the first major axis intersecting the second major axis at an angle as claimed in claim 18 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Application/Control Number: 10/750,328

Art Unit: 2874

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, 9, 11-21, and 22 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Benson et al [USPAT 5,696,627].

Benson et al disclose a light directing film comprising:

A first surface;

A structured surface opposite the first surface, the structured surface having an array of prism elements, the array of prism elements further comprising:

first prism elements having blunt tips [fig. 34]; and second prism elements having sharp tips.

In re claims 2, 11, and 21, Benson et al show the flat blunt tips in fig. 34.

In re claims 3, 12, and 22, Benson et al teach the prior art show the rounded blunt tip in fig. 6.

In re claims 4 and 13, Benson et al show in fig. 6 that the first prisms comprise no more than about 50% of the array.

In re claims 5 and 14, Benson et al show in fig. 14 that at least one second prism element interleaved between a pair of first prism elements.

In re claims 6 and 15, Benson et al show in fig. 13D that the width of the blunt tip is from greater than 0% to less than about 40% of a width of a base of the first prism element.

In re claims 9, 16-17, and 18, Benson et al clearly show in the front drawing that the first and second prism elements can be interleaved each other.

In re claim 18, Benson et al show in fig. 13 that the two major axes are intersecting at an angle.

In re claim 19, it is clear the light source has to be there in order to operate the device, and the Benson et al device inherently functions a viewing screen.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a wholè would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7, 8, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Benson et al.

Benson et al disclose every aspect of claimed invention except for the width of the blunt tip measuring from about 1 µm to about 20 µm, and the second distance measuring about 2µm to about 5 µm less than the first distance.

Benson et al clearly teach at column 18, lines 21-23 that various modification is possible.

It would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify Benson et al device to have the claimed width of the blunt tip and the claimed second distance as need be.

#### Conclusion

In formation regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

For all official patent application related correspondence for organizations reporting to the Commissioner of Patents:

 Correspondence that is transmitted by facsimile must be directed to the central facsimile number, (703) 872-9306.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Further references of interest are cited on Form PLO-892, which is attachment to this office action.

Art Unit: 2874

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen Kim whose telephone number is (571) 272-2349. The examiner can normally be reached on Monday through Thursday.

Ellen E. Kim

**Primary Examiner** 

September 23, 2005/EK